

LITHOLOGIC DESCRIPTION OF SAMPLES SUBMITTED FOR ASSAY-1

Core samples from Skyline Oil Company's Skyline Big 18 corehole No. 2, drilled 2333.6 feet N/S line and 1384.3 feet E/W line, sec. 3, T. 5 S., R. 100 W., Garfield County, Colo.

Surface elevation 8699.1 feet

From	To	Description
0	120	No samples.
120	125.6	Oil shale, lean, tan to gray, poorly defined bedding. Rare tuff stringers.
125.6	127.0	Marlstone, tan, poorly defined bedding. Rare pyrite and tuffaceous streaks.
127.0	138.5	Marlstone, tan to gray, poorly defined bedding. Common pyrite streaks, common tuffaceous streaks. Vertical fracture 132 - 133 feet. A one-inch gray tuff at 137.5 feet and two-inch gray tuff beds at 138.2 and 138.5 feet.
138.5	140.0	Oil shale, medium, dark brown, poorly defined bedding. Rare tuff streaks.
140.0	148.3	Marlstone, tan to light gray, poor to well defined bedding. Rare pyrite. A one-half-inch tan tuff at 147.5 feet.
148.3	150.0	Oil shale, medium, dark brown, banded in upper three inches. A three-inch dark brown hard tuff at bottom.
150.0	154.0	Oil shale, lean, brown, massive to poorly defined bedding. Rare calcite.
154.0	158.0	Marlstone, tan to gray, massive to poorly defined bedding. Rare calcite. Rare tan tuff stringers.
158.0	160.0	Oil shale, lean, brown, poorly defined bedding. Rare tuff stringers.
160.0	166.5	Marlstone, tan to gray, poor to well defined bedding. Common vertical fractures with red shiny coating. Rare pyrite.
166.5	169.5	Marlstone, as above, slightly darker with well defined bedding.
169.5	172.0	Oil shale, medium, dark gray, massive to poorly defined bedding. Rare tuff stringers. Rare calcite partings.
172.0	175.2	Marlstone, tan to light gray, poor to well defined bedding. Rare tuff stringers.
175.2	177.0	Oil shale, lean, tan to brown, poorly defined bedding. A one-half-inch tan tuff at 176.6 feet.
177.0	178.4	Marlstone, tan to light brown, well defined bedding.
178.4	180.0	Oil shale, lean, brown, poorly defined bedding. A two-inch gray tuff at 178.9 feet.
180.0	182.8	Marlstone, tan to gray, well defined bedding.
182.8	184.0	Oil shale, medium, dark gray, massive. Rare tan tuff stringers.

1 By B.L. Short

Illustration No. SBR-3236P

Laramie Petroleum Research Center, Laramie, Wyoming

May 3, 1960

Reid 12/2/59 from Skyline Oil Co. (Stan Bardsley)

LITHOLOGIC DESCRIPTION OF SAMPLES SUBMITTED FOR ASSAY

Core samples from Skyline Oil Company's Skyline Big 18 corehole No. 2, drilled 2333.6 feet N/S line and 1384.3 feet E/W line, sec. 3, T. 5 S., R. 100 W., Garfield County, Colo. (Con.)

Surface elevation 8699.1 feet

From	To	Description
184.0	188.0	Marlstone, tan to brown, poorly defined bedding. Rare pyrite streaks.
188.0	195.0	Oil shale, lean, brown, well defined bedding. Rare tuff stringers. Rare pyrite.
195.0	198.0	Marlstone, tan to brown, poor to well defined bedding. Red coated vertical fracture 196.4 to 197.0 feet.
198.0	210.0	Oil shale, lean, brown to gray, poorly defined bedding. Rare tuff streaks. Rare calcite coated fractures.
210.0	225.2	Oil shale, lean, brown to gray, poor to well defined bedding. A four-inch banded zone at 212.5 feet. Common specks of pyrite.
225.2	226.4	Oil shale, medium, dark gray, poorly defined bedding. Rare pyrite.
226.4	238.4	Oil shale, lean, brown to gray, poorly defined bedding. Common tuff stringers. Rare pyrite.
238.4	239.4	Oil shale, medium, dark gray, massive. A one-half-inch tan tuff at 238.5 feet.
239.4	249.5	Oil shale, lean, gray, poorly defined bedding. Common tuff stringers. Rare pyrite.
249.5	250.2	Oil shale, medium, dark gray, massive to poorly defined bedding.
250.2	261.8	Oil shale, lean, gray, poor to well defined bedding. Three-inch medium oil shale at 256.0 feet.
261.8	262.8	Oil shale, medium, dark gray, massive.
262.8	266.8	Oil shale, lean, gray, poor to well defined bedding. Rare pyrite.
266.8	267.8	Oil shale, medium, dark gray, massive to poorly defined bedding. A one-half-inch tan tuff at 266.8 feet.
267.8	280.9	Oil shale, lean, gray, poor to well defined bedding. Two-inch tan tuff at 268.3 feet, one-inch gray tuff at 274.6 feet, three-inch gray tuff at 276.1 feet, six-inch medium shale at 278.5 feet. Rare pyrite.
280.9	282.0	Marlstone, tan to light gray, poorly defined bedding.
282.0	284	Oil shale, lean to medium, light brown, dark brown, and dark gray, poorly defined bedding.

Illustration No. SBR-3237P

LITHOLOGIC DESCRIPTION OF SAMPLES SUBMITTED FOR ASSAY

Core samples from Skyline Oil Company's Skyline Big 18 corehole No. 2, drilled 2333.6 feet N/S line and 1384.3 feet E/W line, sec. 3, T. 5 S., R. 100 W., Garfield County, Colo. (Con.)

Surface elevation 8699.1 feet

From	To	Description
284	310	Oil shale, lean, light brown and gray, poorly defined to well defined bedding. Light gray and tan tuff beds occur as follows: 0.2 foot at 285.7 feet, 0.4 foot at 287.7 feet, 0.2 foot at 288.2 feet, 0.2 foot at 290.1 feet, 0.5 foot at 294.4 feet, 0.1 foot at 301.1 feet, 0.2 foot at 305.4 feet, and 0.1 foot at 309.0 feet.
310	311	Marlstone, light gray and tan, poorly defined to well defined bedding.
311	317	Oil shale, lean, light brown and dark brown, well defined bedding.
317 (Upper Wavy Bed)	319	Tuff bed, light gray and bluish-gray, fine-grained. Contorted stringers of light brown oil shale in upper part.
319	329.7	Oil shale, lean, light brown, greenish-brown and gray, well defined bedding.
329.7	330.7	Oil shale, lean, light gray and light brown, well defined bedding.
330.7	333.7	Oil shale, lean, tan and brown, well defined bedding.
333.7	334.7	Oil shale, medium, brown and dark gray, well defined bedding.
334.7	336.3	Oil shale, lean to medium, light brown to dark brown, well defined bedding, vertically fractured.
336.3	341.4	Oil shale, lean, tan and brown, well defined bedding. A 0.8-foot bed of medium, dark brown oil shale occurs at 338.2 feet. A 0.5-foot band of dark gray oil shale with brown tuff partings exhibiting a cork-like appearance occurs at 340.3 feet.
341.4 (Bottom A-groove 351.0 feet)	351	Marlstone, tan, gray, and greenish-brown, well defined bedding. A 0.3-foot band of dark brown oil shale occurs at 345.3 feet.
351	355	Oil shale, lean to medium, dark brown and greenish-brown, well defined bedding.
355	358.3	Oil shale, lean, tan and brown, well defined bedding. Common stringers and inclusions of tuff, 0.2-foot bands of light gray tuff occur at 357.6 and 358.1 feet.
358.3	360.3	Oil shale, medium, light brown and dark brown, well defined bedding.

Illustration No. SBR-3238P

LITHOLOGIC DESCRIPTION OF SAMPLES SUBMITTED FOR ASSAY

Core samples from Skyline Oil Company's Skyline Big 18 corehole No. 2,
drilled 2333.6 feet N/S line and 1384.3 feet E/W line, sec. 3, T. 5 S.,
R. 100 W., Garfield County, Colo. (Con.)

Surface elevation 8699.1 feet

From	To	Description
360.3	361.3	Oil shale, medium to rich, dark brown and dark gray, well defined bedding.
361.3	367.8	Oil shale, lean, light brown, greenish-brown and gray, well defined bedding.
367.8	368.3	Tuff bed, tan and bluish-gray, fine-grained.
(Mahogany marker)		
368.3	371.6	Oil shale, lean, tan and greenish-brown, well defined bedding.
371.6	373.5	Oil shale, medium, brown and dark gray, well defined bedding.
373.5	375.2	Oil shale, tan and brown, well defined bedding.
375.2	381.7	Oil shale, rich, dark brown and dark gray, massive to well defined bedding. A 0.3-foot bed of lean oil shale occurs at 376.4 feet. A 0.1-foot gray tuff bed occurs at 381.4 feet.
381.7	382.8	Oil shale, lean to medium, light brown and dark brown, well defined bedding.
382.8	383.8	Oil shale, medium to rich, light brown and dark brown, poorly defined bedding.
383.8	385.8	Oil shale, medium, light brown and dark brown, well defined bedding.
385.8	387.6	Oil shale, rich, dark brown and dark gray, well defined bedding.
387.6	391.3	Oil shale, lean, tan and light brown, well defined bedding. A 0.4-foot band of dark gray rich oil shale occurs at 388.4 feet.
391.3	392.0	Oil shale, rich, dark gray, well defined bedding. Common one-half-inch tuff beds.
392.0	396	Oil shale, lean, light gray and light brown, well defined bedding.
396	397.4	Oil shale, medium, dark brown, massive.
397.4	399.0	Oil shale, lean, light brown, well defined bedding.
399.0	399.7	Oil shale, medium to rich, dark brown, massive.
399.7	404.6	Oil shale, lean, tan and brown, well defined bedding.
404.6	408.8	Oil shale, lean, light gray and light brown, well defined bedding. Common one-inch light gray tuff beds. A 0.3-foot blue-gray tuff bed occurs at 407.7 feet.
408.8	410.1	Oil shale, lean to medium, light brown and dark gray, well defined bedding. A 0.4-foot band of oil shale with brown tuff partings exhibiting a cork-like appearance occurs at 409.0 feet.

Illustration No. SBR-3239P

LITHOLOGIC DESCRIPTION OF SAMPLES SUBMITTED FOR ASSAY

Core samples from Skyline Oil Company's Skyline Big 18 corehole No. 2,
drilled 2333.6 feet N/S line and 1384.3 feet E/W line, sec. 3, T. 5 S.,
R. 100 W., Garfield County, Colo. (Con.)

Surface elevation 8699.1 feet

From	To	Description
410.1	412.6	Oil shale, lean, tan and gray, well defined bedding.
412.6	413.8	Oil shale, medium, dark brown and dark gray, well defined bedding. A 0.2-foot cork-like zone at 413.2 feet.
413.8	415.5	Oil shale, lean, tan and brown, well defined bedding.
415.5		Bottom of core.

Illustration No. SBR-3240P

Laramie Petroleum Research Center, Laramie, Wyoming

May 3, 1960